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AMSAT NEWS SERVICE
ANS-147

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

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ANS-147 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 147.01
  From AMSAT HQ KENSINGTON, MD.
DATE May 27, 2018
To All RADIO AMATEURS
BID: $ANS-147.01

Help Requested to Monitor for Signals From Chinese Lunar Sats

After their launch on 2018-05-20 at 21:28 UTC, LJ 1 and LJ 2 were maneuvered onto a track to the Moon. Several amateurs received telemetry from the satellites. But now LJ 1 appears to encounter problems.

Quoting Wei BG2BHC:
"Can you help to find amateurs in the US to help to monitor DSLWP-A on
435.425
and 436.425 now? We lost the contact of satellite A on S band after an
orbit
adjustment. We just tried to switch on UHF, but we don't know if it
works or
not.

If operating, 435.425 MHz should be 500bps GMSK and JT4 alternately.
436.425 MHz should be 250 bps GMSK. Both transmit once in 5 minutes.

LONGJIANG 1 - NORAD CAT ID 43471
LONGJIANG 2 - NORAD CAT ID 43472

[Nico, PA0DLO, for the above information]

Updates to AMSAT-NA TLE Distribution

The Japan Aerospace Exploration Agency (JAXA) has announced that three cubesat carrying Amateur Radio payloads were deployed from the ISS on May 11 at around 1030 UTC. See AMSAT News Service bulletin ANS-133 for details.

The following cubesats have been added to this week's AMSAT-NA TLE distribution and are designated by Space-Track as follows:

1KUNS-PF (Kenya)- NORAD CAT ID 43466 (a 3U cubesat with a 1200 bps or 9600 bps telemetry beacon at 437.300 MHz)

UBAKUSAT (Turkey)- NORAD CAT ID 43467 (a 3U cubesat with a CW beacon at 437.225 MHz, a telemetry beacon at 435.325 MHZ, and a linear transponder with a 435.200 - 435.250 MHz downlink / 145.940 - 145.990 MHz uplink)

Irazu (Costa Rica) - NORAD CAT ID 43468 (a 1U cubesat with a 9600 bps telemetry beacon at 436.500 MHz)

Nico Janssen (PA0DLO) reminds us that it is still too early to tell if the above CAT ID's are correct for each object. There may be changes.

[ANS thanks Ray, WA5QGD, for the above information]

Digital Communications Conference (DCC) Call for Papers

Technical papers are solicited for presentation at the ARRL and TAPR Digital Communications Conference (DCC) and publication in the Conference Proceedings. Annual conference proceedings are published by the ARRL. Presentation at the conference is not required for publication. Submission of papers are due by July 31st, 2018 and should be submitted to

Maty Weinberg, ARRL
225 Main Street
Newington, CT 06111
or via the Internet to
maty(a)arrl.org

The ARRL and TAPR DCC is an international forum for radio amateurs to meet, publish their work, and present new ideas and techniques. This year, the DCC is in Albuquerque, New Mexico, September 14-16. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. Topics include, but are not limited to:

- Software Defined Radio (SDR)
- Digital voice (D-Star, P25, WinDRM, FDMDV, DRMDV, G4GUO)
- Digital satellite communications
- Global position system
- Precise Timing
- Automatic Packet Reporting System (APRS)
- Short messaging (a mode of APRS)
- Digital Signal Processing (DSP)

• HF digital modes
• Internet interoperability with Amateur Radio networks
• Spread spectrum
• IEEE 802.11 and other Part 15 license-exempt systems adaptable for
A mateur Radio
• Using TCP/IP networking over Amateur Radio
• Mesh and peer to peer wireless networking
• Emergency and Homeland Defense backup digital communications in
Amateur Radio
• Updates on AX.25 and other wireless networking protocols
• Topics that advanced the Amateur Radio art

Go to https://tinyurl.com/y7wgm6vh to view the guidelines for paper submissions

[ANS thanks the TAPR PSR for the above information]

Invitation to the 2018 NASA AAQ Workshop - September 7, 2018

You are invited to participate in the 2018 NASA Academy of Aerospace Quality {AAQ) Workshop. This event will take place at Glenn Research Center in Cleveland, Ohio on Friday, September 7 from 8:00 AM to 4:30 PM. The event targets academics (faculty, researchers, students) involved with space related
activities such as cube sat, small sat, high altitude balloon, rocket and more. It is also designed for those wishing to be involved with NASA space related projects. The event will feature speakers and a poster session.

Travel stipends from NASA are available to attendees on a limited basis and will favor those giving a presentation or poster. There is no registration charge for attending the event but registration in advance is required.

Please register at the link below by July 31.

http://spider2.eng.auburn.edu/AAQ/registration.html

The NASA Academy of Aerospace Quality is an open access virtual academy of educational modules, lessons learned, standards, case studies and more related to quality assurance for space related projects, especially those from academic based teams. The website is:

http://aaq.auburn.edu

Links to the agenda and materials from previous NASA AAQ Workshops can be found at the link below:

http://aaq.eng.auburn.edu/events

[ANS thanks Alice Smith and Jeff Smith for the above information]

China Microsatellite Symposium 2018

The China Microsatellite Symposium(CMS2018), (www.microsatsymp.com) will be held
at Northwestern Polytechnical University, Xi’an China on 18th – 20th November

2018. The symposium includes keynote presentations and several sessions which
will focus on the design experience, scientific missions, launch opportunities
and all new technologies about microsatellites. In addition, another import
session, International CubeSat and Mission Contest will be held on 20th November
2018, after which a free launch opportunity of 3U CubeSat or 1U payload capacity
will be awarded to the winner of the first prize. Participants can get
information and submit the works through the official website of our contest:
www.cubesatcontest.org.

The submission deadlines for the abstract of CMS2018 and work of CubeSat contest
are both August 31, 2018. You could submit abstract and get information on the
website www.microsatsymp.com

Along with the symposium, there will also be a related exhibition, during which
you can find the updated progress of CubeSat, launchers and other related
technology. For exhibitors, you could also get information about booth on the
website.

The event is supported by China National Space Administration, International
Astronautical Federation, Chinese Society of Astronautics and Chinese Institute
of Command and Control.

If you have any questions, please contact service(a)microsatsymp.com.

[ANS thanks Ray Nugent for the above information]

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25 Year Archive of Keplerian Elements Now on AMSAT Web Site

AMSAT Orbital Elements Manager Ray Hoad, WA5QGD has made his archive
of orbital elements for active amateur satellites back to October 1993.
Joe Fitzgerald, KM1P has posted this on the AMSAT web site at:
http://www.amsat.org/tle/historical/ Joe commented, "Thanks for all
those bulletins, Ray. That represents a lot of work over 25 years!"

[ANS thanks Ray Hoad, WA5QGD and Joe Fitzgerald, KM1P for the above
information]

Satellite Shorts

(Venice, LA, USA) Wyatt Dirks, AC0RA, and Clayton Coleman, W5PFG’s plan to activate maidenhead gridsquare EL58hx on Memorial Day weekend, 2018, is rescheduled due to unsafe weather conditions. The National Weather Service’s National Hurricane Center confirms 70% potential for a tropical depression to form in the next five days with potential to move into the Gulf of Mexico this weekend. Rainfall predicted to hit the Louisiana coast combined with additional moisture from the potential

depression would inhibit safe access to the operating location. The new dates for the expedition are June 7-9, 2018.

AMSAT Vice President Engineering, Jerry Buxton, N0JY has made his Engineering presentation at the 2018 Dayton Hamvention AMSAT forum available on-line: http://amsat.us/?p=189 There is a PDF version for viewing, and the original pptx version. You may reuse the information in this presentation in its entirety as a presentation, or by the use excerpts from this presentation to enhance your own presentation, so long as you do not alter the original wording when making your own slides. (via @N0JY on Twitter)

Members of the Radio Club Croatian Flora Fauna will be active as 9A90P from Vela Palagruza Island (CI-084, LH 0057) between June 16-23rd. Operators mentioned are Marijan/9A1MB, Radovan/9A2SC, Zeljko/9A3DF, Branko/9A3ST, Kiko/9A4WY, Vito/9A5VS, Neven/9A5YY and Emir/9A6AA. Activity will be on 80-6 meters near the IOTA frequencies using CW, SSB, the Digital modes and the satellites. QSL 9A90P via 9A2MF. ADDED NOTE. Look for some operators to possibly operate (using their own callsign) from neighboring islands: Mala Palagruza (EU-090, CI-461) and Galijula Island (EU-090, CI-462).
(thanks to Ohio/Penn DX Bulletin No. 1365)

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
Lee McLamb, KT4TZ
kt4tz at amsat dot org